ER: Requirements Specification Component

'GetTogether' is an innovative event management website that aims to make it easier to create, organize and participate in events of all types. Our vision is to provide an intuitive and comprehensive platform that connects people and makes the experience of planning and participating of more collaborative and memorable events.

A1: GetTogether

The Get Together is a collaborative event management information system featuring a web-based interface. Users have the ability to sign in to the system and initiate both public and private events. In the context of each event, users can extend invitations to others, though these invites are not always accepted. Furthermore, the system enables users to share comments, upload files, and conduct polls within forums.

Users can be divided into two types, authenticated users and non-authenticated users. Both have the possibility of viewing public events and searching for a given event using its tag. In addition to these features, when users authenticate, they are able to create their own events, invite certain people to participate and manage their participants.

If the user decides to participate in a particular event, they can write and delete comments, answer the polls, upload files, vote on the comments, see the other participants and of course they can also leave the event.The organizer can edit the event details, create polls and also cancel the event. System administrators can search for events, view their details, manage event reports and delete events if necessary.

This project is being developed in an environment in which the organization of events plays an essencial role, including from companies that promote conferences, to groups of volunteers that coordinate community events. The event market is very dynamic and diversified with a growing search for effective solutions.

The platform boasts an adaptable design that ensures users enjoy a seamless browsing experience, regardless of their device, be it a desktop, tablet, or smartphone. Furthermore, the product prioritizes user-friendly navigation and strives to deliver an exceptional overall user experience.

A2: Actors and User stories

This artifact comprises the delineation of the actors and their user stories, serving as agile project documentation for the project's requisites.
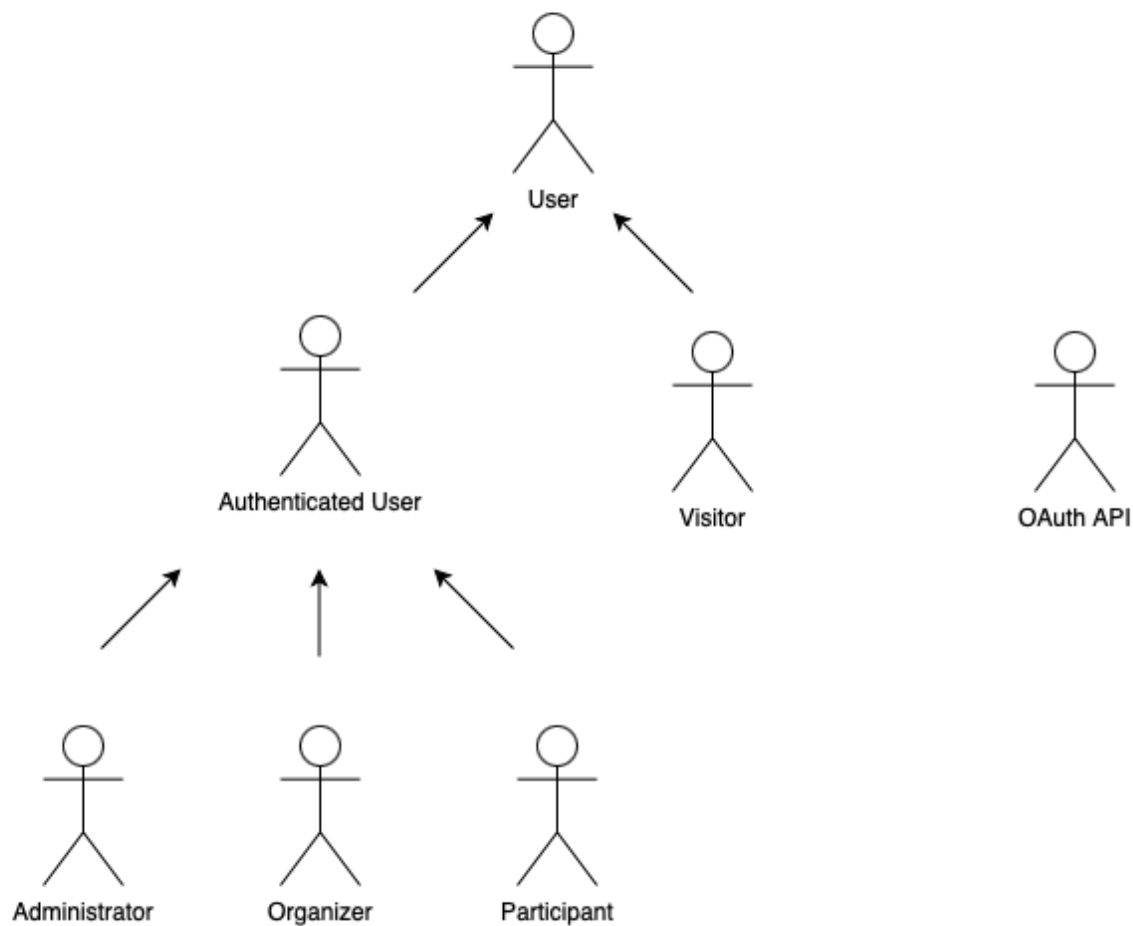
1. Actors

Figure 1: GetTogether actors.

Identifier	Description
Visitor	Unauthenticated user that can register itself (sign-up) or sign-in in the system
User	Generic user that has access to public information, such as public events and can search and explore them
Authenticated User	Authenticated user that can create events, invite users to public events, manage his events and all the ones attended/to attend and request to join an event
Participant	Authenticated user that can view event messages and attendees list, interact with people and participate in different activities within the event forum and leave any event
Organizer	Authenticated user who for each event he created can: edit its details, manage its participants, create polls, manage the event's visibility and finally cancel the event
Administrator	Authenticated user that can browse events and see their details, manage event reports and in the last case, delete an event
OAuth API	External OAuth API that can be used to register or authenticate into the system

Table 1: GetTogether actors description.

2. User Stories

2.1. Visitor

Identifier	Name	Priority	Description
US01	Sign-in	high	As a Visitor, I want to be able to authenticate into the system, so that I can access privileged information
US02	Sign-up	high	As a Visitor, I want to be able to register myself into the system, so that I can authenticate myself into the system
US03	OAuth API Sign-up	low	As a Visitor, I want to be able to register a new account linked to my Google account, so that I do not need to create a whole new account to use the platform
US04	OAuth API Sign-in	low	As a Visitor, I want to be able to sign-in through my Google account, so that I can authenticate myself into the system

Table 2: Visitor user stories.

2.2. User

Identifier	Name	Priority	Description
US5	See home	high	As a User, I want to be able to access the home page, so that I can see a brief presentation of the website
US6	See about	high	As a User, I want to be able to access the about page, so that I can see a complete description of the website and its creators
US7	Consult FAQ	high	As a User, I want to be able to access the FAQ, so that I can get quick answers to common questions
US8	Consult contacts	high	As a User, I want to be able to access contacts, so that I can come in touch with the platform creators
US9	Search by tag	medium	As a User, I want to be able to search events by tag, so that I can quickly find the ones I am looking for
US10	Search	high	As a User, I want to be able to search events, so that I can see a complete description of it

Table 3: User user stories.

2.3. Authenticated User

Identifier	Name	Priority	Description
US11	Create event	high	As an Authenticated User, I want to be able to create events, so that I can plan and manage gatherings efficiently

Identifier	Name	Priority	Description
US12	Manage my events	high	As an Authenticated User, I want to be able to view and manage the list of my events, to see all the events I have created and their details
US13	Manage events attended/to attend	high	As an Authenticated User, I want to be able to view and manage a list of events that I have attender or plan to attend, so that I can keep track of my event participation
US14	Edite user profile	medium	As an Authenticated User, I want to be able to edit my profile, so that I can make any changes I want
US15	Request to join event	medium	As an Authenticated User, I want to be able to request to join an event that I'm interested in, so that I can participate in the event
US16	Invite users to public event	low	As an Authenticated User, I want to be able to invite anyone i'd like to have on my event, so that I can limit who participates on my event

Table 4: Authenticated User user stories.

2.4. Participant

Identifier	Name	Priority	Description
US17	Leave event	high	As a Participant, I want to be able to leave an event which I had previously confirmed attendance, so that I can manage my event participation
US18	View event messages	high	As a Participant, I want to be able to see event messages, so that I can always be updated
US19	Manage invitations received	medium	As a Participant, I want to be able to manage my invitations, so that I can can choose which events I will attend
US20	Add comments	medium	As a Participant, I want to be able to add comments to an event, so that I can engage in discussions, ask questions and provide feedback related to the event
US21	View attendees list	medium	As a Participant, I want to be able to view the list of attendees who are also participating in the same event as me, so that I can see who else will be attending the event
US22	Vote in comments	low	As a Participant, I want to be able to vote in the comments, so that I can provide my input or opinions on event-related questions
US23	Edit comment	low	As a Participant, I want to be able to edit any comment I made, so that I can correct mistakes, provide additional information, or update my contribution as needed

Identifier	Name	Priority	Description
US24	Delet comment	low	As a Participant, I want to be able to delete a comment I previously posted, so that I can remove my contribution as needed
US25	Answer polls	low	As a Participant, I want to be able to answer polls, so that I can provide my input or opinions on event-related questions
US26	Upload files	low	As a Participant, I want to be able to upload files, so that I can share some files with other participants

Table 5: Participant user stories.

2.4. Organizer

Identifier	Name	Priority	Description
US27	Manage event participants	high	As an Organizer, I want to be able to add and remove participants from my events, so that I can control who is going or not
US28	Manage event visibility	high	As an Organizer, I want to be able to change the visibility of my event so that I can control who can see/join it
US29	Manage requests	high	As an Organizer, I want to be able to manage and respond to join requests from users who wish to participate in my event, so that I can control event attendance
US30	Edit event details	high	As an Organizer, I want to be able to edit some event details, so that I can correct mistakes, provide additional or update information
US31	Invite user to my events	medium	As an Organizer, I want to be able to invite anyone i'd like to have on my event, so that I can limit who participates on my event
US32	Cancel event	medium	As an Organizer, I want to be able to cancel an event that I have previously created, so that I can communicate event cancellations to participants
US33	Create polls	low	As an Organizer, I want to be able to create polls associated with an event, so that I can interact with participants specific topics related to the event
US34	Access statistics on Event	low	As an Organized, I want to be able to access statistics related to an event I have organized, so that I can understand the event's performance, engagement, etc
US35	Manage invitations sent	low	As an Organizer, I want to be able to manage all the invites I've sent, so that I can limit my invitations

Table 6: Organizer user stories.

2.5. Administrator

Identifier	Name	Priority	Description
US36	Browse events	high	As an Administrator, I want to be able to browse events, so that I can explore a variety of events
US37	View event details	high	As an Administrator, I want to be able to view the details of an event, so that I can access information about the event and its agenda
US38	Manage event reports	medium	As an Administrator, I want to be able to access reports related to events, so that I can track an analyze event performance, attendance, etc
US39	Manage users	medium	As an Administrator, I want to be able to delete an user, so that I can have a safe environment
US40	Delete event	medium	As an Administrator, I want to be able to delete an event, so that I can maintain the integrity of the platform and respond to user requests

Table 7: Administrator user stories.

3. Supplementary Requirements

This section contains business rules, technical requirements and other non-functional requirements on the project.

3.1. Business rules

Identifier	Name	Description
BR01	Events Public/Private	Events can be public or private. Private events are not shown in search results.
BR02	Admin	Administrator accounts are independent of the user accounts, i.e. they cannot create or participate in events.
BR03	Events Organizer	That is only one organizer per event. (The organizer can be a company or an association)
BR04	Events tags	That are specific tags that the events can and should use to facilitate the search.

Table 8: GetTogether business rules.

3.2. Technical requirements

Identifier	Name	Description

Identifier	Name	Description
TR01	Availability	Guarantee website availability with a robust infrastructure. Employ redundant servers, content delivery networks (CDNs), and load balancing. Regularly monitor uptime, performance, and traffic. Create a disaster recovery plan, utilize failover mechanisms, and ensure 24/7 support. Minimize downtime and optimize user experience for uninterrupted website access.
TR02	Accessibility	The system must ensure that everyone can access the pages, regardless of whether they have any handicap or not, or the web browser they use
TR03	Usability	The system should be simple and easy to use.The MediaLibrary system is designed to be used by media consumers from all ages, with or without technical experience, so a very good usability is a critical requirement.
TR04	Performance	Optimize website performance for swift user experiences. Utilize content delivery networks (CDNs), minimize HTTP requests, and employ efficient coding practices. Regularly monitor load times, resolve bottlenecks, and employ caching mechanisms for fast-loading pages and enhanced user satisfaction.
TR05	Web Application	The system should be implemented as a web application with dynamic pages (HTML5, JavaScript, CSS3 and PHP). It is critical that the MediaLibrary system is easily accessible from anywhere without the need to install specific applications or software, adopting standard web technologies.
TR06	Portability	The server-side system should work across multiple platforms (Linux, Mac OS, etc.). The MediaLibrary system is destined for personal use. To make it easily available to a large user base, it should be platform-independent.
TR07	Database	The PostgreSQL database management system must be used, with a version of 11 or higher.
TR08	Security	Ensure website security by implementing HTTPS encryption, regular software updates, and web application firewalls. Enforce strong authentication, encrypt sensitive data, and maintain backups. Conduct vulnerability scans, monitor activities, and have an incident response plan. Educate users, assess third-party security, and comply with data protection regulations for robust online security.
TR09	Robustness	The system must be prepared to handle and continue operating when runtime errors occur
TR10	Scalability	The system must be prepared to deal with the growth in the number of users and their actions
TR11	Ethics	The system must respect the ethical principles in software development (for example, personal user details, or usage data, should not be collected nor shared without full acknowledgement and authorization from its owner)

Table 9: GetTogether technical requirements.

3.3. Restrictions

Identifier	Name	Description
C01	Deadline	The system should be ready to be used at the delivery date

Table 10: GetTogether project restrictions.

A3: Information Architecture

This section presents a brief overview of the information architecture of the system to be developed.

1. Sitemap

The GetTogether system is organized into 4 main areas, the static pages that provide general information about the system,the profile pages which contain information relating to each user's profile, the events pages to manage events and the admin page.
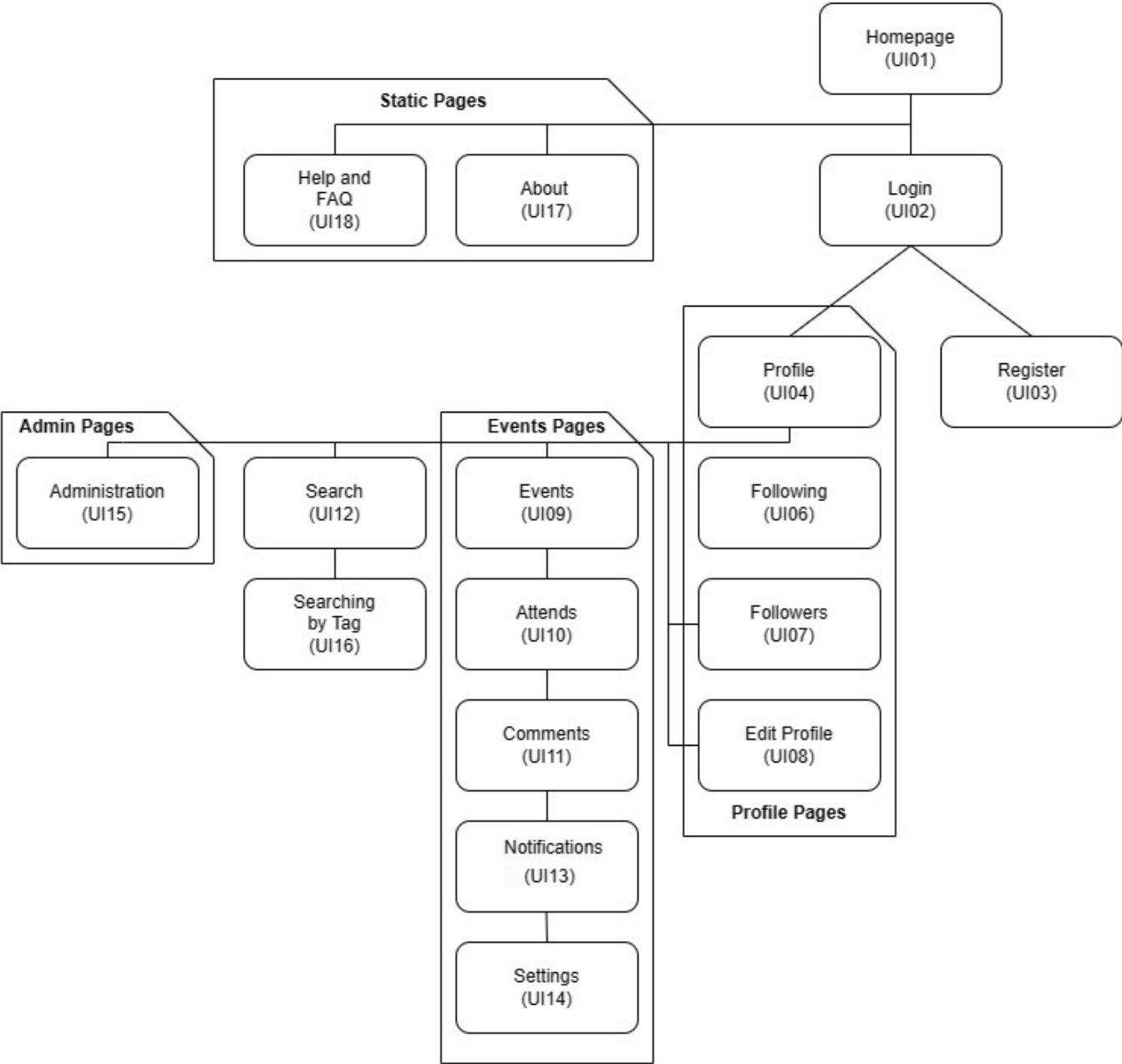
Figure 2: GetTogether sitemap

2. Wireframes

For GetTogether system, the wireframes for the home page (UI01) and the profile page(UI02) are presented in figures 3 and 4, respectively.
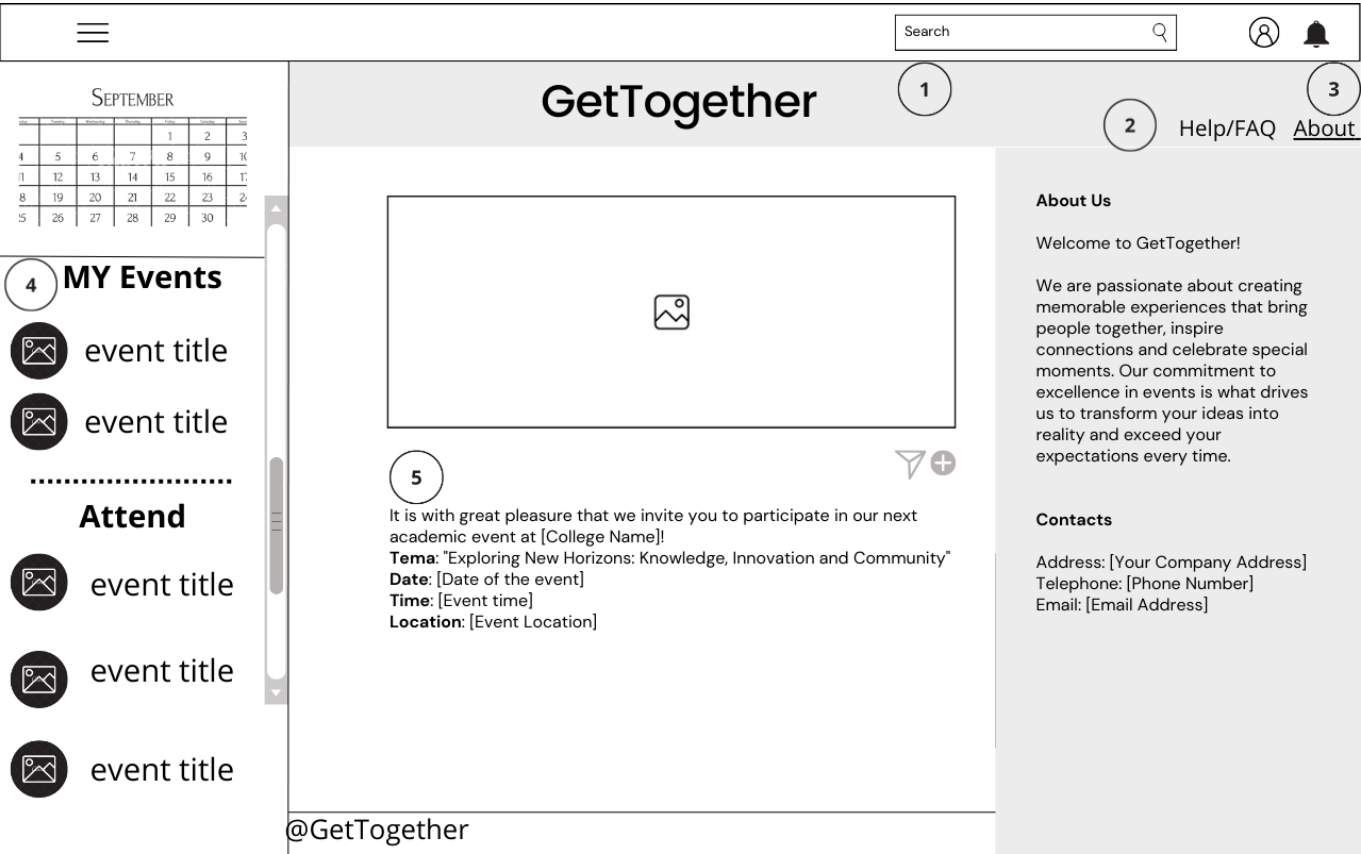
UI01: Home Page

Figure 3: Home Page wireframe

1. Direct access to the search feature
2. Breadcrumbs to help the user navigate
3. Profile and notifications buttons respectively
4. Side-bar for quick access to events
5. Zone to interact with Events;register users have opportunity to view,attend or share the event
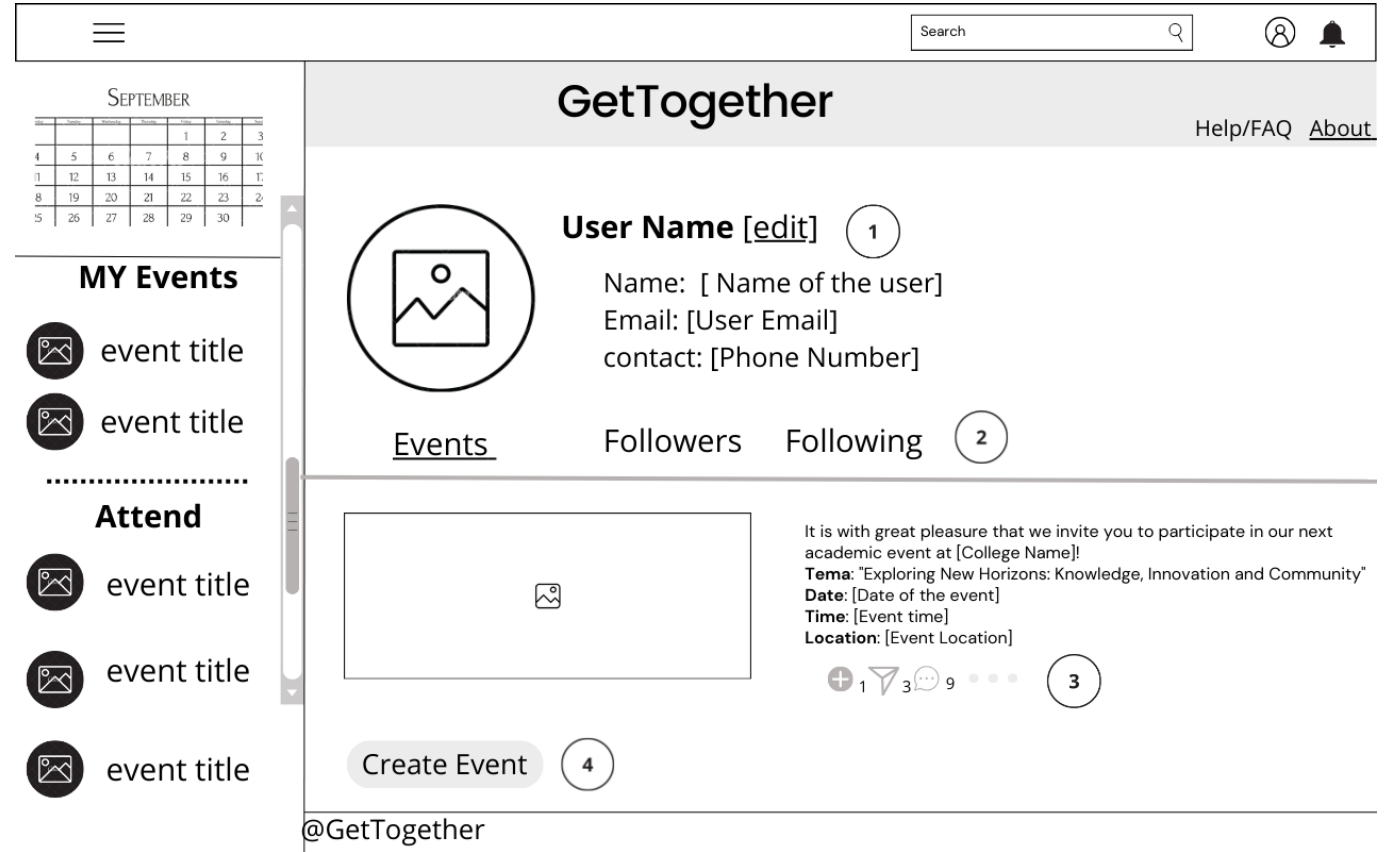
UI02: Profile Page

Figure 4: Profile Page wireframe

1. Edit is available to the events owner
2. Access to the Followers and Following pages
3. Zone to interact with the post; owner of the event have option to edit or delete the post
4. Button to create new event

Revision history

Changes made to the first submission:

1. Item 1
2. ...

GROUP LBAW2321, 25/09/2023

- Group member 1 Jorge Restivo, up202108886@edu.fe.up.pt (Editor)
- Group member 2 Letícia Coelho, up202108877@edu.fe.up.pt
- Group member 3 Lara Cunha, up202108876@edu.fe.up.pt
- Group member 4 Alexandre Santos, up202108671@edu.fe.up.pt